

E906/SeaQuest AEM report

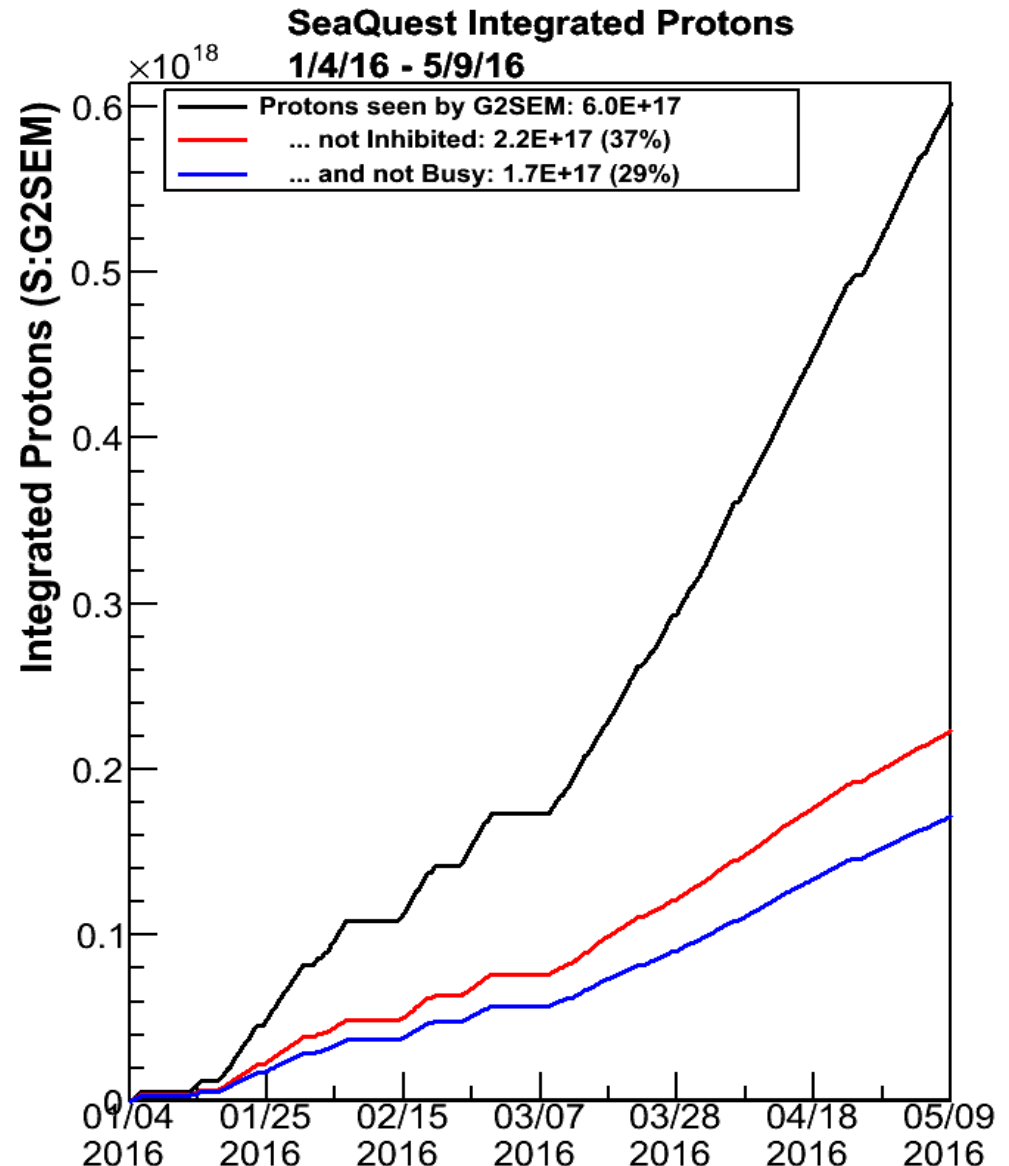
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Beam and Target

- Have been taking data smoothly after early March.
- No scheduled down time from the experiment.
- Targets are all doing well.

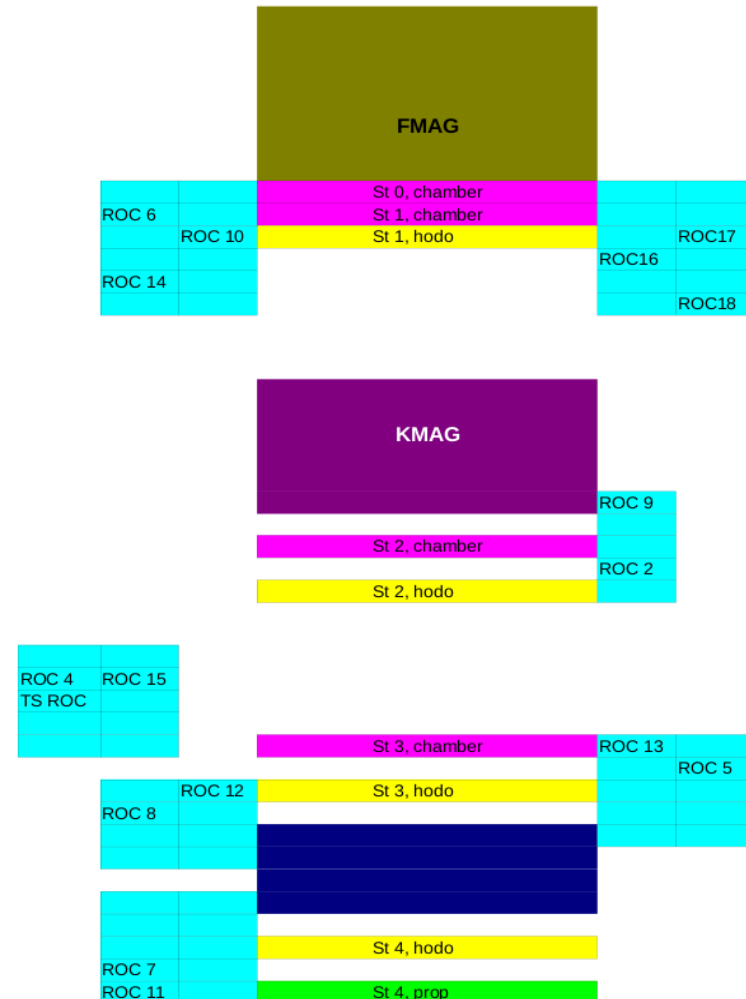


Detectors

- St. 0 has occasional warm/dead channels.
 - Fine tuning thresholds.
 - Occasionally need to replace hardware, LSB or TDC.
- Fine maintenance of the gas mixture for St. 1.
 - Switching gas input regularly
 - Monitoring the high voltage and current
- No issue with St. 2 and 3 chambers.
- Hodoscope counters are all OK.
- Prop. tubes are as good as they can be.

DAQ and Trigger

- Issues with individual ROC or TDC:
 - Show up as long dead time, low trigger rate or no trigger at all.
 - Normally rebooting, power cycling would fix the issue and back on data taking.
 - Occasionally needs to replace TDC or ROC.
 - Often these happen to the ones near FMAG.
 - Radiation? Power?
- Trigger works as designed.



Future possible upgrades

- Reduce DAQ dead time
- Reduce random combination in trigger

Summary

- E906/SeaQuest has been taking data smoothly.
- Many thanks to AD for the beam and everyone that help resolving issues.